

Low Loss Flexible LMR-LW600 Light Weight Coax Cable Double Shielded with Black PE Jacket



LMR-LW600-LC-BULK

Times Microwave Systems Coax Cable Specification

Configuration

- · Low Loss, Outdoor Flexible Cable
- 2 Shield(s)

Features

- · PE Jacket
- Max Operating Temperature +85°C
- · Min Install Bend Radius of 1.5 inches

Applications

- · Antenna Installations
- · RF Test Systems

- · Phase Velocity 85% VoP
- · Max Operating Frequency of 8 GHz
- · Light Weight Coax
- · General Purpose RF Interconnect
- · Laboratory Applications

Description

LMR-LW600-LC-BULK coax cable from L-com is only one of a large number of radio frequency coaxial cable types specifically stocked to be ready for quick shipment. L-com LMR-LW600-LC-BULK coax cable is manufactured in a flexible design and has a 50 Ohm impedance. This low loss flexible 50 Ohm coax cable LMR-LW600-LC-BULK is constructed with a 0.590 inch diameter and Black PE jacket.

LMR-LW600-LC-BULK flexible 50 Ohm coax cable with PVC jacket is rated for a 8 GHz maximum operating frequency. This 50 Ohm 0.590 inch diameter and low loss flexible coax cable is built with a double shield count and RF shielding of 90 dB. L-com LMR-LW600-LC-BULK coax is constructed with Foam PE dielectric and a maximum operating temperature of +85 degrees C. Times Microwave LMR-LW600-LC-BULK coax cable specs for this wire properties can be found on its RF coax cable LMR-LW600-LC-BULK datasheet.

LMR-LW600-LC-BULK cable is part of more than one million RF, microwave parts in stock at L-com. This Times Microwave low loss LMR-LW600-LC-BULK coax cable is ready to buy and can be shipped worldwide. L-com also maintains a wide selection of other radio frequency coaxial cable types that ship same-day from our warehouse as with the rest of our other RF/microwave components.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|--------------|---------|--------------|
| Frequency Range | DC | | 8 | GHz |
| Impedance | | 50 | | Ohms |
| Velocity of Propagation | | 85 | | % |
| Time Delay | | 1.17 [3.84] | | ns/ft [ns/m] |
| Shielding Effectiveness | 90 | | | dB |
| Dielectric Withstanding Voltage (DC) | | | 4,000 | Vdc |
| Jacket Spark | | | 8,000 | Vrms |
| Inner Conductor DC Resistance | | | 0.53 | Ohms/1000ft |
| Outer Conductor DC Resistance | | | 4.4 | Ohms/1000ft |
| Nominal Capacitance | | 23.4 [76.77] | | pF/ft [pF/m] |
| Nominal Inductance | | 0.058 [0.19] | | uH/ft [uH/m] |

^{*} LMR™ is a trademark of Times Microwave Systems.



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------|---------|---------|---------|--------|
| Input Power (Peak) | | | 40 | kWatts |

Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|-------|-------|-------|-----|----------|
| Frequency | 0.05 | 0.15 | 0.45 | 0.9 | 1.5 | GHz |
| Attenuation, Typ | 0.5 | 1 | 1.2 | 1.7 | 2.5 | dB/100ft |
| | 1.64 | 3.28 | 3.94 | 5.58 | 8.2 | dB/100m |
| Input Power (CW), Max | 4,240 | 2,410 | 1,970 | 1,350 | 930 | Watts |

| Description | F6 | F7 | F8 | F9 | F10 | Units |
|-----------------------|-------|-------|------|-------|-------|----------|
| Frequency | 1.8 | 2 | 2.5 | 5.8 | 8 | GHz |
| Attenuation, Typ | 3.3 | 3.7 | 3.9 | 4.4 | 7.3 | dB/100ft |
| | 10.83 | 12.14 | 12.8 | 14.44 | 23.95 | dB/100m |
| Input Power (CW), Max | 700 | 630 | 590 | 520 | 320 | Watts |

Mechanical Specifications

Diameter Weight

Min. Bend Radius (Installation)

Min. Bend Radius (Repeated) Bending Moment

Bending Moment Tensile Strength Flat Plate Crush 0.59 in [14.99 mm} 0.099 lbs/ft [0.15 kg/m] 1.5 in [38.1 mm] 6 in [152.4 mm] 2.75 lbs-ft [3.73 N-m]

260 lbs [117.93 kg] 60 lbs/in [1.07 kg/mm]

Construction Specifications

| Description | Material and Plating | Diameter |
|-----------------|----------------------|---------------------|
| Inner Conductor | Copper, 1 Strand | 0.176 in [4.47 mm] |
| Conductor Type | Solid | |
| Dielectric | Foam PE | 0.455 in [11.56 mm] |
| First Shield | Aluminum Tape | |
| Second Shield | Aluminium | |
| Jacket | PE, Black | 0.59 in [14.99 mm] |

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C Installation Range -40 to +85 deg C Storage Range -70 to +85 deg C



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Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Low Loss Flexible LMR-LW600 Light Weight Coax Cable Double Shielded with Black PE Jacket from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

URL: https://www.l-com.com/low-loss-flexible-lmr-lw600-light-weight-coax-cable-double-shielded-black-pe-jacket-by-the-foot-lmr-lw600-lc-bulk-p.aspx

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